[illegible]25[illegible] [illegible]

1[illegible] $f(x)=\frac{ax}{e^{x-1}}+x-ln(ax)-2(a>0)$ [illegible] $f(x)$ [illegible] $(0,+\infty)$ [illegible] a [illegible]

2[illegible] $f(x)=ae^{x}-ln(x+2)+lna-2$ [illegible]

[illegible]1[illegible] $f(x)$ [illegible] $x=0$ [illegible] a [illegible]

[illegible]2[illegible]

①[illegible] $f(x)\geq 0$ [illegible] a [illegible]

②[illegible] $f(x)$ [illegible] a [illegible]

3[illegible] $f(x)=xlnx+\frac{a}{2}x^{2}+1$ [illegible]

[illegible]1[illegible] $g(x)=f(x)+x\cos x-\sin x-xlnx-1$ [illegible] $(0,\frac{\pi}{2}]$ [illegible]1[illegible] a [illegible]

[illegible]2[illegible] x [illegible] $xe^{x-a}=f(x)-\frac{a}{2}x^{2}+ax-1$ [illegible] a [illegible]

4□□□□□ $f(x)=ae^{x}-ln(x+1)+lna-1$ □

□1□□ $a=1$ □□□□ $f(x)$ □□□□

□2□□□□ $f(x)$ □□□□□□□□□□ a □□□□□□

5□□□□□ $f(x)=e^{2x+a}-\frac{1}{2}lnx+\frac{a}{2}$ □

□1□□□□ $y=f(x)$ □ $(0,\frac{1}{2})$ □□□□□□□ a □□□□□□

□2□□□□ $y=f(x)$ □□□□□□□□□□□ a □□□□□□

6□□□□□ $f(x)=e^{x-1}-mx^{2}(m\in R)$ □

□1□□□□□□□□□□□□① $m=\frac{1}{2}$ □② $m=1$ □□□ $f(x)$ □□□ $(0,+\infty)$ □□□□□□□□□□□□□□□

□2□□□ $m>0$ □□□□ $g(x)=f(x)+mxln(mx)$ □□ $g(x)$ □□□ $(0,+\infty)$ □□□□□□□□□ m □□□□□□

7.□□□□ $x>0$ □□□ $a\left(e^{ax}+1\right)\geq 2\left(x+\frac{1}{x}\right)\ln x$ □□□□ a □□□□

8.□□□□ $f(x)=e^x-a\ln(ax-a)+a(a>0)$ □□□□ x □□□□ $f(x)>0$ □□□□□□□ a □□□□□

9.□□□ $x>0$ □□□□ $2ae^{2x}-\ln x+\ln a\geq 0$ □□□□□□□ a □□□□

10.□□□□ $f(x)=ae^x-\ln x-1$ □□:□ $a\geq\frac{1}{e}$ □□ $f(x)\geq 0$.

11□□□□□ $f(x)=x\left(e^{2x}-a\right)$ □□ $f(x)\geq 1+x+\ln x$ □□ a □□□□□□